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designated and notified by the Netherlands to perform tasks with respect to
conformity modules mentioned in article 9 of Directive 2009/23/EC, after
having established that the measuring instrument meets the applicable
requirements of Directive 2009/23/EC, to:

Manufacturer Mettler-Toledo, LLC
1150 Dearborn Drive
Worthington, Ohio 43085-6712
United States of America

Measuring instrument **A Non-automatic weighing instrument**
Type : BC series

Further properties are described in the annexes:
– Description T8457 revision 0;
– Documentation folder T8457-1.

Valid until 6 May 2024

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1 General information about the non-automatic weighing instrument

All properties of the non-automatic weighing instrument, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential parts

Number	Pages	Description	Remarks
8457/0-01	1	Block diagram	-

The electronics;
 The mechanical assembly with load cell.

EMI protection measures:

- The instrument is built into a metal housing.

1.2 Essential characteristics

Accuracy class	III
Maximum capacity	15 kg ≤ Max ≤ 60 kg
Verification scale interval	e ≥ 5 g
Weighing range(s)	Single interval Multi-interval Multiple range
Maximum number of scale intervals	n ≤ 3000 divisions (per partial weighing range)
Maximum number of weighing ranges	2
Tare	T ≤ -Max
Temperature range	-10 °C / +40 °C
Power supply voltage	5 V DC (USB)
Application	Intended to be used for determining a transport tariff
Software identification	30099478 Version 0.00.0002 Checksum: 0x4B8B4440

Software:

- The identification number will be displayed after pressing the key sequence:
 - Press and hold the up arrow;
 - Select the "Info" tab then press Enter;
 - Select the "SW Ver" tab then press Enter.

1.3 Essential shapes

The non-automatic weighing instrument is built according to the drawings:

Number	Pages	Description	Remarks
8457/0-02	1	Scale assembly GSP60	Exploded view
8457/0-03	1	Scale assembly GSP30	Exploded view

The data plate is secured against removal by sealing or will be destroyed when removed. The inscriptions Max, Min, e, as required by Directive 2009/23/EC annex IV article 1.4 are presented in the display by software.

Inside the cabinet is an adjustment lock, located on the main board.

1.4 Conditional parts

The non-automatic weighing instrument may be equipped with peripheral equipment which is used for the applications listed in article 1(2)(a) of Directive 2009/23/EC, provided that the peripheral equipment is certified to be connected to a non-automatic weighing instrument by a Notified Body responsible for type examination under Directive 2009/23/EC, or, that the equipment and the use of the equipment complies with the requirements of WELMEC 2.5 Issue 2, 2.2.

The non-automatic weighing instrument may be equipped with an electronic Point Of Sale (POS) or an Electronic Cash Register (ECR), provided that the POS and ECR are certified to be connected to a non-automatic weighing instrument EC type-approved by a Notified Body responsible for type examination under Directive 2009/23/EC.

The non-automatic weighing instrument may be equipped with Electronic Funds Transfer equipment (EFT/ECU), if the EFT/ECU represents only the price total on the display.

The non-automatic weighing instrument is fitted with a levelling device and a level indicator, unless the instrument is installed in a fixed position. A ring on the level indicator indicates when the maximum tilt is exceeded.

1.5 Non-essential parts

The non-automatic weighing instrument may be connected to non-essential devices, for example but not limited to bar code readers, foot switches, second display's and cash drawers, provided that:

- They do not present primary data used for purposes mentioned in article 1(2)(a) of Directive 2009/23/EC unless the "preliminary observations" in Annex 1 of this directive is satisfied;
- They do not lead to an instrument having other essential characteristics than those fixed by this type-approval document.

Other non-essential parts:

- AC/DC plug-in power supply.

2 Information about the main constituent parts of the non-automatic weighing instrument

2.1 The electronics

2.1.1 Essential parts

Number	Pages	Description	Remarks
8457/0-06	1	PCBA GSP mainboard - 64090864C	Layout
8457/0-07	3	PCBA GSP mainboard - 64090864C	Parts list
8457/0-08	1	PCBA GSP Rito Herman board - 64091235B	Layout
8457/0-09	2	PCBA GSP Rito Herman board - 64091235B	Parts list

2.1.2 Essential characteristics

Software:

Producer	Type	Certificate number
Mettler-Toledo	Rainbow	TC8039

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicator;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare weighing;
- Gravity compensation;
- Adjustment / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Displaying the price supplied by an external device through the interface.

2.1.3 Conditional parts

The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:

- USB device.

2.1.4 Non-essential parts

Display;
 Keyboard.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Number	Pages	Description	Remarks
8457/0-04	1	Loadcell assembly	MT1041
8457/0-05	1	Loadcell assembly	0785

2.2.2 Essential characteristics

$e \geq E_{\max}/10000$, or $e_1 \geq E_{\max}/10000$ in case of multi-interval instrument;
 Excitation power supply 5 V DC.

2.2.3 Essential shapes

See drawings in chapter 2.2.1.

3 Seals

To secure components that may not be dismantled or adjusted by the user, the non-automatic weighing instrument has to be secured in a suitable manner on the locations indicated in the drawings:

Number	Pages	Description	Remarks
8457/0-10	2	Sealing	-

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfill the requirements of article 1 of Annex IV of Directive 2009/23/EC.

In case the weighing instrument is equipped with an electronic Point Of Sale the conformity assessment procedure of WELMEC 2.2 Issue 3, 2.2 shall be taken into account.